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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

20

Attorney Docket Number

Complete if Known

Application Number

10777.471

Filing Date

02/04/04

First Named Inventor

Adnan M.M. Mialli

Art Unit

1615-11026

Examiner Name

~~Unknown~~ Stockton

Attorney Docket Number

TPP 2002-07

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant : Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
LLS	TR-190	US- 200200002199	01/03/2002	Jeppesen et al.	
	TR-191	US- 20020009762	01/24/2002	Flint et al.	
	TR-192	US- 20020035137	03/21/2002	Liu et al.	
	TR-193	US- 20020072516	06/13/2002	Liu et al.	
	TR-194	US- 20020099073	07/25/2002	Andersen et al.	
	TR-195	US- 20020138862	09/26/2002	Kennedy et al.	
	TR-196	US- 20020169157	11/14/2002	Liu et al.	
	TR-197	US- 20020183518	12/05/2002	Mjalli et al.	
	TR-198	US- 20030064979	04/03/2003	Hansen et al.	
	TR-199	US- 20030069267	04/10/2003	Moller et al.	
	TR-200	US- 20030108883	06/12/2003	Rondinone et al.	
	TR-201	US- 20030114703	01/19/03	Leblanc et al.	
	TR-202	US- 20030120073	06/26/2003	Seto et al.	
	TR-203	US- 20030144338	07/31/2003	Matsumoto et al.	
	TR-204	US- 20030153756	08/14/2003	Guertin et al.	
	TR-205	US- 20030170680	09/11/2003	Sondergaard et al.	
	TR-206	US- 20030180827	09/25/2003	Welte et al.	
	TR-207	US- 20030130335	07/10/2003	Mjalli et al.	
	TR-208	US- 20030215899	11/20/2003	Meng et al.	
	TR-209	US- 20030217379	11/20/2003	Kennedy et al.	
LLS	TR-210	US-20030194745	10/16/2003	McDowell et al.	

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

/Laura L. Stockton/

Date Considered

01/18/2007

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449A/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i>				Application Number	10/777,471
				Filing Date	02/04/04
				First Named Inventor	Adnan M.M. Mjalli
				Art Unit	1615
				Examiner Name	Unknown
				Attorney Docket Number	TTP 2002-07
Sheet	2	of	20		

[illegible][illegible]

Examiner Signature	/Laura L. Stockton/	Date Considered	01/18/2007
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **3** of **20****Complete if Known**

Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
LLS	TR-163	US-	5,348,989	09/20/1994	Romine et al	
	TR-164	US-	6,169,087	01/02/2001	Andersen et al.	
	TR-165	US-	6,174,874	01/16/2001	Wang et al.	
	TR-166	US-	6,214,584	04/10/2001	Rodan et al.	
	TR-167	US-	6,238,902	05/29/2001	Cheng et al.	
	TR-168	US-	6,262,069	01/17/2001	Crew et al.	
	TR-169	US-	6,388,076	05/14/2002	Mjalli et al.	
	TR-170	US-	6,365,592	04/02/2002	Leblanc et al.	
	TR-171	US-	6,410,556	06/25/2002	Andersen et al.	
	TR-172	US-	6,448,429	09/10/2002	Leblanc et al.	
	TR-173	US-	6,465,444	10/15/2002	Bayly et al.	
	TR-174	US-	6,472,545	10/28/2002	Liu et al.	
	TR-175	US-	6,488,141	11/26/2002	Lau et al.	
	TR-176	US-	6,486,142	11/26/2002	Leblanc et al.	
	TR-177	US-	6,498,151	12/24/2002	Li et al.	
	TR-178	US-	6,534,056	03/18/2003	Tromblay et al.	
	TR-179	US-	6,583,126	06/24/2003	Leblanc et al.	
		TR-180	US-	6,586,467	07/01/2003	Burgess et al.
TR-181		US-	6,596,772	07/22/2003	Huang et al.	
LLS		TR-182	US-	6,605,753	08/12/2003	Kennedy et al.

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

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Signature

/Laura L. Stockton/

Date
Considered

01/18/2007

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 4 of 20**Complete if Known**

Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
LLS ↓ ↓ ↓ ↓ ↓ ↓ ↓	TR-183	US- 6,613,903	09/02/2003	Andersen et al.	
	TR-184	US- 6,627,767	09/30/2003	Liu et al.	
	TR-185	US- 6,699,896	03/02/2004	Malamas et al.	
	TR-186	US- 6,765,021	07/20/2004	Butera et al.	
	TR-187	US- 6,770,466	08/03/2004	Shi et al.	
	TR-188	US- 6,777,433	08/17/2004	Leblanc et al.	
	TR-189	US- 6,784,205	08/31/2004	Barr et al.	
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FOREIGN PATENT DOCUMENTS

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				

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/Laura L. Stockton/

Date
Considered

01/18/2007

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/777,431 431 431
		Filing Date	02/04/04
		First Named Inventor	Adnan M.M. Mjalli
		Art Unit	1615
		Examiner Name	Unknown
		Attorney Docket Number	TTP 2002-07
(Use as many sheets as necessary)			
Sheet	5	of	20

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LLS	TR-1	ANDERSEN HS, "2-(oxalylamino)-benzoic acid is a general, competitive inhibitor of protein-tyrosine phosphatases." The Journal of Biological Chemistry, 275:7101-7108 (2000)	
	TR-2	MURTHY VS, "3D-QSAR CoMFA and CoMSIA on Protein Tyrosine Phosphatase 1B Inhibitors" Bioorganic & Medicinal Chemistry, 10:2267-2282 (2002)	
	TR-3	MOK A, "A single nucleotide polymorphism in protein tyrosine phosphatase PTP-1B is associated with protection from diabetes or impaired glucose Tolerance in Oji-Cree" The Journal of Clinical Endocrinology & Metabolism, 87(2): 724-727 (2002)	
	TR-4	SHEN K, "Acquisition of a specific and potent PTP1B inhibitor from a novel combinatorial library and screening procedure." The Journal of Biological Chemistry, 276:47311-47319 (2001)	
	TR-5	COVIC L, "Activation and inhibition of G protein-coupled receptors by cell-penetrating membrane-ethered peptides." Proceedings of the National Academy of Sciences, 99:643-648 (2002)	
	TR-6	LIU DG, "Acylsulfonamide-containing PTP1B inhibitors designed to mimic an enzyme-bound water of hydration." Bioorganic & Medicinal Chemistry Letters, 13:3005-3007 (2003)	
	TR-7	WIESMANN C, "Allosteric inhibition of protein tyrosine phosphatase 1B" Nature Structural & Molecular Biology, 11:730-737 (2004)	
	TR-8	LI X, "Alpha, alpha-difluoro-beta-ketophosphonates as potent inhibitors of protein tyrosine phosphatase 1B." Bioorganic & Medicinal Chemistry Letters, 14:4301-4306 (2004)	
	TR-9	ARABACI G, "alpha-bromoacetophenone derivatives as neutral protein tyrosine phosphatase inhibitors: structure-Activity relationship." Bioorganic & Medicinal Chemistry Letters, 12:3047-3050 (2002)	
↓	TR-10	CHO KJ, "Alpha-lipoic acid decreases thiol reactivity of the insulin receptor and protein tyrosine phosphatase 1B in 3T3-L1 adipocytes." Biochemical Pharmacology, 66:849-858 (2003)	
LLS	TR-11	AHMAD F, "Alterations in skeletal muscle protein-tyrosine phosphatase activity and expression in insulin-resistant human obesity and diabetes." Journal of Clinical Investigation, 100:449-458 (1997)	

Examiner Signature	/Laura L. Stockton/	Date Considered	01/18/2007
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 6 of 20**Complete if Known**

Application Number	10/777,481 491
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LLS	TR-12	WANG WQ, "An overview of the protein tyrosine phosphatase superfamily." Current Topics in Medicinal Chemistry, 3:739-748 (2003)	
	TR-13	GUM RJ, "Antisense Protein Tyrosine Phosphatase 1B Reverses Activation of p38 Mitogen-Activated Protein Kinase in Liver of ob/ob Mice." Molecular Endocrinology, 17:1131-1143 (2003)	
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	TR-15	PATANI G. "Bioisosterism: A Rational Approach in Drug Design." Chemical Review, 96, 3147-3176 (1996)	
	TR-16	LEE K, "CD45 protein-tyrosine phosphatase inhibitor development." Current Topics in Medicinal Chemistry, 3:787-807 (2003)	
	TR-17	IRIE-SASAKI J, "CD45 regulated signaling pathways." Current Topics in Medicinal Chemistry, 3:783-996 (2003)	
	TR-18	CHU W, "Cell-free Synthesis of Preparative Amounts of Enzymatically Active Human PTP1B" Biochemica, 2:28-29 (2001)	
	TR-19	XIE L, "Cellular effects of small molecule PTP1B inhibitors on insulin signaling." Biochemistry, 42:12792-12804 (2003)	
	TR-20	TAYLOR WP, "Charged with meaning: the structure and mechanism of phosphoprotein phosphatases." Chemistry & Biology, 2:713-718 (1995)	
	TR-21	PATANKAR SJ, "Classification of Inhibitors of Protein Tyrosine Phosphatase 1B Using Molecular Structure Based Descriptors." Journal of Chemical Information and Computer Sciences, 43:885-899 (2003)	
	TR-22	SUN JP, "Crystal structure of PTP1B complexed with a potent and selective bidentate inhibitor." The Journal of Biological Chemistry, 278:12406-12414 (2003)	
↓	TR-23	DATABASE CAPLUS 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; retrieved from STN accession no. 62:29663 Database accession no. 1985:29663 RNs 805-86-3 and 810-22-0 abstract & PYL T ET AL: ANN., 1984, Page 679	
LLS	TR-24	YAN Z, "Design and synthesis of phosphotyrosine mimetics." Bioorganic & Medicinal Chemistry Letters, 13:2083-2085 (2003)	

Examiner Signature	/Laura L. Stockton/	Date Considered	01/18/2007
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**INFORMATION DISCLOSURE
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Sheet

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of

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Complete if Known

Application Number	10/777,481 421
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LLS	TR-25	ANDERSEN HS, "Discovery and SAR of a novel selective and orally bioavailable nonpeptide classical competitive inhibitor class of protein-tyrosine phosphatase 1B." Journal of Medicinal Chemistry, 45:4443-4459 (2002)	
	TR-26	PEI Z, "Discovery and SAR of novel, potent and selective protein tyrosine phosphatase 1B inhibitors." Bioorganic & Medicinal Chemistry Letters, 13:3129-3132 (2003)	
	TR-27	LIU G, "Discovery and structure-activity relationship of oxalylarylaminobenzoic acids as inhibitors of protein tyrosine phosphatase 1B." Journal of Medicinal Chemistry, 46:2093-2103 (2003)	
	TR-28	ERLANSON DA, "Discovery of a New Phosphotyrosine Mimetic for PTP1B Using Breakaway Tethering" Journal of the American Chemical Society, 125:5602-5603 (2003)	
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	TR-31	CHEN YT, "Divalent and trivalent alpha-ketocarboxylic acids as inhibitors of protein tyrosine phosphatases." Journal of Medicinal Chemistry, 45:3946-3952 (2002)	
	TR-32	BOUTE N, "Dynamics of the interaction between the insulin receptor and protein tyrosine-phosphatase 1B in living cells." EMBO Reports, 4:313-319 (2003)	
	TR-33	PETRONE A, "Emerging issues in receptor protein tyrosine phosphatase function: lifting fog or simply shifting?" Journal of Cell Science, 113:2345-2354 (2000)	
	TR-34	PETERS GH, "Enzyme kinetic characterization of protein tyrosine phosphatases" Biochimie, 85:527-534 (2003)	
LLS	TR-35	SHRESTHA S, "Evans Blue and other dyes as protein tyrosine phosphatase inhibitors." Bioorganic & Medicinal Chemistry Letters, 14:1923-1926 (2004)	

Examiner
Signature

/Laura L. Stockton/

Date
Considered

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	10/777,494 431
			Filing Date	02/04/04
			First Named Inventor	Adrian M.M. Mjalli
			Art Unit	1615
			Examiner Name	Unknown
			Attorney Docket Number	TTP 2002-07
(Use as many sheets as necessary)				
Sheet	8	of	20	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LLS	TR-36	CROSS KP, "Finding discriminating structural features by reassembling common building blocks." Journal of Medicinal Chemistry, 46:4770-4775 (2003)	
	TR-37	WANG Q, "Fluorescein monophosphates as fluorogenic substrates for protein tyrosine phosphatases." Biochimica Et Biophysica Acta, 1431:14-23 (1999)	
	TR-38	SHIM YS, "Formylchromone derivatives as a novel class of protein tyrosine phosphatase 1B inhibitors." Bioorganic & Medicinal Chemistry Letters, 13:2561-2563 (2003)	
	TR-39	LIU G, "Fragment screening and assembly: a highly efficient approach to a selective and cell active protein tyrosine phosphatase 1B inhibitor." Journal of Medicinal Chemistry, 46:4232-4235 (2003)	
	TR-40	ROMSICKI Y, "Functional characterization and crystal structure of the C215D mutant of protein-tyrosine phosphatase-1B." The Journal of Biological Chemistry, 278:29009-15 (2003)	
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	TR-42	XIN Z, "Identification of a monoacid-Based, cell permeable, selective inhibitor of protein tyrosine phosphatase 1B." Bioorganic & Medicinal Chemistry Letters, 13:3947-3950 (2003)	
	TR-43	PUIUS YA, "Identification of a second aryl phosphate-binding site in protein-tyrosine phosphatase 1B: a paradigm for inhibitor design." Proceedings of the National Academy of Sciences, 94:13420-13425 (1997)	
	TR-44	FUKADA T, "Identification of YB-1 as a regulator of PTP1B expression: implications for regulation of insulin and cytokine signaling." The EMBO Journal, 22:479-493 (2003)	
↓	TR-45	ELCHEBLY M, "Increased insulin sensitivity and obesity resistance in mice lacking the protein tyrosine phosphatase-1B gene." Science, 283:1544-1548 (1999)	
LLS	TR-46	ZABELL AP, "Inhibition studies with rationally designed inhibitors of the human low molecular weight protein tyrosine phosphatase." Bioorganic & Medicinal Chemistry, 12:1867-1880 (2004)	

Examiner Signature	/Laura L. Stockton/	Date Considered	01/18/2007
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 9 of 20**Complete if Known**

Application Number	10/777,471 471 471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LLS	TR-47	TAYLOR SD, "Inhibitors of protein tyrosine phosphatase 1B (PTP1B)." Current Topics in Medicinal Chemistry, 3:759-782 (2003)	
	TR-48	TAO J, "Insulin stimulates tyrosine phosphorylation and inactivation of protein-tyrosine phosphatase 1B in vivo." The Journal of Biological Chemistry, 276:29520-29525 (2001)	
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	TR-50	International Search Report for related PCT application PCT/US04/004076 mailed August 24, 2004.	
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	TR-54	FRIMURER TM, "Ligand-induced conformational changes: improved predictions of ligand binding conformations and affinities." Biophysical Journal, 84:2273-2281 (2003)	
	TR-55	TJERNBERG A, "Mechanism of action of pyridazine analogues on protein tyrosine phosphatase 1B (PTP1B)" Bioorganic & Medicinal Chemistry Letters, 14:891-895 (2004)	
	TR-56	LARSEN SD, "Modification of the N-terminus of peptidomimetic protein tyrosine phosphatase 1B (PTP1B) inhibitors: identification of analogues with cellular activity." Bioorganic & Medicinal Chemistry Letters, 13:971-975 (2003)	
	TR-57	SALMEEN A, "Molecular basis for the dephosphorylation of the activation segment of the insulin receptor by protein tyrosine phosphatase 1B." Molecular Cell, 6:1401-1412 (2000)	
LLS	TR-58	UMEZAWA K, "Molecular design and biological activities of protein-tyrosine phosphatase inhibitors." Pharmacology & Therapeutics, 99:15-24 (2003)	

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STATEMENT BY APPLICANT**

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Sheet 10 of 20

Complete if Known

Application Number	10/777,471 471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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LLS	TR-59	DOMAN TN, "Molecular docking and high-throughput screening for novel inhibitors of protein tyrosine phosphatase-1B." Journal of Medicinal Chemistry, 45:2213-2221 (2002)	
	TR-60	PETERS GH, "Molecular dynamics simulations of protein-tyrosine phosphatase 1B. I. ligand-induced changes in the protein motions." Biophysical Journal, 77:505-515 (1999)	
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	TR-64	GLOVER NR, "Nuclear magnetic resonance and restrained molecular dynamics studies of the interaction of an epidermal growth factor-derived peptide with protein tyrosine phosphatase 1B." Biochemistry, 38:5256-5271 (1999)	
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↓	TR-68	CHEN YT, "Peptidic alpha-Ketocarboxylic Acids and Sulfonamides as Inhibitors of Protein Tyrosine Phosphatases." Journal of Organic Chemistry, 68:4123-4125 (2003)	
LLS	TR-69	TAING M, "Potent and highly selective inhibitors of the protein tyrosine phosphatase 1B" Biochemistry, 38:3793-3803 (1999)	

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Sheet

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Complete if Known

Application Number	10/777,437 421
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LLS	TR-70	URBANEK, "Potent Reversible Inhibitors of the Protein Tyrosien Phosphatase CD45" Journal of Medical Chemistry, 44: 1777-1793 (2001)	
	TR-71	XIN Z, "Potent, selective inhibitors of protein tyrosine phosphatase 1B." Bioorganic & Medicinal Chemistry Letters, 13:1887-1890 (2003)	
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Examiner Signature	/Laura L. Stockton/	Date Considered	01/18/2007
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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/777,431 431
		Filing Date	02/04/04
		First Named Inventor	Adnan M.M. Mjalli
		Art Unit	1615
		Examiner Name	Unknown
		Attorney Docket Number	TTP 2002-07
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Sheet	12	of	20

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LLS	TR-82	GOLDSTEIN BJ, "Protein-tyrosine phosphatase 1B (PTP1B): a novel therapeutic target for type 2 diabetes mellitus, obesity and related states of insulin resistance." Current Drug Targets - Immune, Endocrine & Metabolic Disorders, 1:265-275 (2001)	
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	TR-91	ROMSICKI Y, "Purification and characterization of T cell protein tyrosine phosphatase reveals significant functional homology to protein tyrosine phosphatase-1B." Archives of Biochemistry and Biophysics, 414:40-50 (2003)	
↓	TR-92	SALMEEN A, "Redox regulation of protein tyrosine phosphatase 1B involves a sulphenyl-amide intermediate." Nature, 423:769-773 (2003)	
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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 13 of 20**Complete if Known**

Application Number	10/777,422 421
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LLS	TR-94	GALIC S, "Regulation of insulin receptor signaling by the protein tyrosine phosphatase TCPTP." Molecular And Cellular Biology, 23:2096-2108 (2003)	
	TR-95	HAJ FG, "Regulation of receptor tyrosine kinase signaling by protein tyrosine phosphatase-1B." The Journal of Biological Chemistry, 278:739-44 (2003)	
	TR-96	PETERS GH, "Residue 259 is a key determinant of substrate specificity of protein-tyrosine phosphatases 1B and alpha." The Journal of Biological Chemistry, 275:18201-18209 (2000)	
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	TR-101	XIE J, "Squaric Acids: A New Motif for Designing Inhibitors of Protein Tyrosine Phosphatases " Organic Letters, 6:83-88 (2004)	
	TR-102	DILLET V, "Stabilization of Charges and Protonation States in the Active Site of the Protein Tyrosine Phosphatases: A Computational Study" Journal of Physical Chemistry B, 104:11321-11333 (2000)	
✓	TR-103	IVERSEN LF, "Steric hindrance as a basis for structure-based design of selective inhibitors of protein-tyrosine phosphatases." Biochemistry, 40:14812-14820 (2001)	
LLS	TR-104	ANDERSEN JN, "Structural and evolutionary relationships among protein tyrosine phosphatase domains." Molecular And Cellular Biology, 21:7117-7136 (2001)	

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Sheet 14 of 20**Complete if Known**

Application Number	10/777,487 <u>4/21</u>
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

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LLS	TR-105	GROVES M, "Structural Basis for Inhibition of the Protein Tyrosine Phosphatase 1B by Phosphotyrosine Peptide Mimetics" Biochemistry, 37:17773-17783 (1998)	
	TR-106	SARMIENTO M, "Structural basis of plasticity in protein tyrosine phosphatase 1B substrate recognition" Biochemistry, 39:8171-8179 (2000)	
	TR-107	LAU C, "Structure based design of a series of potent and selective non peptidic PTP-1B inhibitors" Bioorganic & Medicinal Chem. Letters, 14: 1043-4048 (2004)	
	TR-108	VERSEN LF, "Structure determination of T cell protein-tyrosine phosphatase." The Journal of Biological Chemistry, 277:19982-19990 (2002)	
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	TR-114	MCCAIN DF, "Suramin derivatives as inhibitors and activators of protein-tyrosine phosphatases." The Journal of Biological Chemistry, 279:14713-14725 (2004)	
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✓	TR-116	LARSEN SD, "Synthesis and biological activity of a novel class of small molecular weight peptidomimetic competitive inhibitors of protein tyrosine phosphatase 1B" Journal of Medicinal Chemistry, 45:598-622 (2002)	
LLS	TR-117	THERIEN M, "Synthesis of a novel peptidic photoaffinity probe for the PTP-1B enzyme." Bioorganic & Medicinal Chemistry Letters, 14:2319-2322 (2004)	

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 15 of 20

Complete if Known

Application Number	10/777,411 471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LLS	TR-118	DUFRESNE C, "The development of potent non-peptidic PTP-1B inhibitors." Bioorganic & Medicinal Chemistry Letters, 14:1039-1042 (2004)	
	TR-119	LEUNG C, "The difluoromethylenesulfonic acid group as a monoanionic phosphate surrogate for obtaining PTP1B inhibitors." Bioorganic & Medicinal Chemistry, 10:2309-2323 (2002)	
	TR-120	MOONEY RA, "The leukocyte common antigen-related protein LAR: candidate PTP for inhibitory targeting." Current Topics in Medicinal Chemistry, 3:809-819 (2003)	
	TR-121	WASSERMAN et al., "The Oxazole-triamide Rearrangement. Application to Peptide Synthesis" TETRAHEDRON LETTERS, vol. 23, no. 37, pages 3831-3834 (1982)	
	TR-122	TIGANIS T, "The protein-tyrosine phosphatase TCPTP regulates epidermal growth factor receptor-mediated and phosphatidylinositol 3-kinase-dependent signaling." The Journal of Biological Chemistry, 274:27768-27775 (1999)	
	TR-123	WIDLANSKI TS, "The road less travelled: taming phosphatases." Chemistry & Biology, 4:489-492 (1997)	
	TR-124	DUBE N, "The role of protein tyrosine phosphatase 1B in Ras signaling." Proceedings of the National Academy of Sciences, 101:1834-1839 (2004)	
	TR-125	ESPANEL X, "The SPOT technique as a tool for studying protein tyrosine phosphatase substrate specificities." Protein Science, 11:2326-2334 (2002)	
	TR-126	SCAPIN G, "The structural basis for the selectivity of benzotriazole inhibitors of PTP1B." Biochemistry, 42:11451-11459 (2003)	
	TR-127	ASANTE-APPIAH E, "The structure of PTP-1B in complex with a peptide inhibitor reveals an alternative binding mode for bisphosphonates." Biochemistry, 41:9043-9051 (2002)	
	TR-128	BUKczynska P, "The T-cell protein tyrosine phosphatase is phosphorylated on Ser-304 by cyclin-dependent protein kinases in mitosis." Biochemical Journal, 380:939-949 (2004)	
LLS	TR-129	RAGAB A, "The tyrosine phosphatase 1B regulates linker for activation of T-cell phosphorylation and platelet aggregation upon FcγRIIIa cross-linking." The Journal of Biological Chemistry, 278:40923-40932 (2003)	

Examiner Signature	/Laura L. Stockton/	Date Considered	01/18/2007
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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 16 of 20

Complete if Known

Application Number	10/777,471
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjalli
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
LLS	TR-130	ZABOLOTNY JM, "Transgenic Overexpression of Protein-tyrosine Phosphatase 1B in Muscle Causes Insulin Resistance, but Overexpression with Leukocyte Antigen-related Phosphatase Does Not Additively Impair Insulin Action." The Journal of Biological Chemistry, 279:24844-24851 (2004)	
↓	TR-131	LEE K, "Tripeptide inhibitors of Yersinia protein-tyrosine phosphatase." Bioorganic & Medicinal Chemistry Letters, 13:2577-2581 (2003)	
↓	TR-132	SIMS C, "Tyrosine phosphatase inhibitors selectively antagonize beta-adrenergic receptor-dependent regulation of cardiac ion channels." Molecular Pharmacology, 58:1213-1221 (2000)	
LLS	TR-133	ZHU L, "Use of an Anaerobic Chamber Environment for the Assay of Endogenous Cellular Protein-Tyrosine Phosphatase Activities." Biological Procedures Online, 4:1-9 (2002)	

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/Laura L. Stockton/

Date
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01/18/2007

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				Application Number	10/777,471
				Filing Date	02-04-04
				First Named Inventor	Adnan M. M. Mjalli
				Art Unit	1615
				Examiner Name	Unknown
				Attorney Docket Number	TTP 2002-07
Sheet	17	of	20		

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Examiner Signature	/Laura L. Stockton/	Date Considered	01/18/2007
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Substitute for form 1449/APTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/777.42 421
				Filing Date	02/04/04
				First Named Inventor	Adnan M.M. Mjalli
				Art Unit	1615
				Examiner Name	Unkown
				Attorney Docket Number	TTP 2002-07
Sheet	18	of	20		

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
LLS	TR-135	WO 97/40017	10/30/97	Anderson et al.		
	TR-136	WO 99/02505	01/21/99	LaCrampe et al.		
	TR-137	WO 99/11658	03/11/99	Liebeschuetz et al.		
	TR-138	WO 99/46244	09/16/99	Jeppesen et al.		
	TR-139	WO 99/65942	12/23/99	Gordon et al.		
	TR-140	WO 00/76971	12/21/00	Jones et al.		
	TR-141	WO 01/26656	04/19/01	Chabrier de Lassauniere et al.		
↓	TR-142	WO 02/010140	02/07/02	Thurieu et al.		
	TR-143	WO 02/04412	01/17/02	Burgess et al.		
LLS	TR-144	WO 02/04459	01/17/02	Anderson et al.		

Examiner Signature	/Laura L. Stockton/	Date Considered	01/18/2007
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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
LLS	TR-145	WO 03/020688	03/13/03	Liu et al.		
↓	TR-146	WO 03/033496	04/24/03	Mjalli et al.		
	TR-147	WO 03/041729	05/22/03	Zhang et al.		
	TR-148	WO 03/048140	06/12/03	Inaba et al.		
	TR-149	WO 03/064376	08/07/03	Swinnen et al.		
	TR-150	WO 03/072537	09/04/03	Szezepanklewicz et al.		
	TR-151	WO 03/073987	09/12/03	Barr et al.		
↓	TR-152	WO 03/082841	10/09/03	Coppola et al.		
LLS	TR-153	WO 03/092679	11/13/03	Groneberg et al.		

Examiner Signature	/Laura L. Stockton/	Date Considered	01/18/2007
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Application Number	10/777,421 42
Filing Date	02/04/04
First Named Inventor	Adnan M.M. Mjallili
Art Unit	1615
Examiner Name	Unknown
Attorney Docket Number	TTP 2002-07

(Use as many sheets as necessary)

Sheet	20	of	20
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		Country Code ² - Number ⁴ - Kind Code ⁵ (if known)					
LLS	TR-154	WO 03/093498		11/13/03	Pei et al.		
↓	TR-155	WO 04/014415		02/19/04	Zheng et al.		
	TR-156	WO 04/020466		03/11/04	Hoof et al.		
	TR-157	WO 04/041799		05/21/04	Birch et al.		
	TR-158	WO 04/050646		06/17/04	Kenny et al.		
	TR-159	WO 04/071447		08/26/04	Mjalli et al.		
	TR-160	WO 04/071448		08/26/04	Mjalli et al.		
↓	TR-161	WO 04/074238		09/02/04	Gray et al.		
LLS	TR-162	WO 04/074256		09/02/04	Klopfenstein et al.		

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